

**Amendments to the Specification**

Please delete the paragraph at page 38, lines 2 through 14, which starts with "The invention relates to a method".

Please add the following new paragraph at page 38, line 2:

A method of controlling the temperature of a biological specimen by using induction heating. The specimen is either fixed to a carrier or is in liquid form in contact with a carrier with fixed capture probes. The carrier is removably placed in proximity to a solid support member with a conducting material, and the solid support is subjected to an oscillating magnetic field. The carrier and support member are preferably a microscope slide and a cartridge, respectively.